

### **Abstract**

A fuel cell includes a fuel cell main unit (101), a fuel holder (334) and a transforming section (335). The fuel cell main unit (101) includes a fuel electrode (102) and an oxidant electrode (108), and generates electric power based on supplying of organic liquid fuel (124) to the fuel electrode (102) and oxidant (126) to the oxidant electrode (108). The fuel holder (334) stores the organic liquid fuel (124) and supplies the organic liquid fuel (124) to the fuel electrode (102). The transforming section (335) transforms the organic liquid fuel (124) into vapor or mist (337). The fuel holder (334) supplies the vapor or the mist (337) to the fuel electrode (102).